

## Changes From Revision 00 to Revision 01

### DCD Tier 2, Appendix 1A

<b>Item</b>	<b>Location</b> (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	<b>Description of Change</b>
1	Cover sheet	Changed revision to Rev 1 and date to January 2006 Deleted Conditional Release Statement
2	Header	Change from Rev. 0 to Rev. 1
3	1A.1	Deleted references 1A-5 , 1A-6 and 1A-7.
4	Table 1A-1 10CFR50.34(f)(1)(i)	Added at the end of the discussion the following: “...ESBWR and which have been incorporated.” Added 'The PRA contains' at the start of the 3rd sentence.
5	Table 1A-1 10CFR50.34(f)(1)(iv)	Deleted “Applicable to PWRs only” and replaced with “Not Applicable”
6	Table 1A-1 10CFR50.34(f)(1)(v)	Added “in conjunction with the Automatic Depressurization System (ADS)” in the last paragraph
7	Table 1A-1 10CFR50.34(f)(1)(viii)	Added “Since the core is never uncovered the issues relating to spray cooling are not applicable to the ESBWR.” In the middle of the discussion.
8	Table 1A-1 10CFR50.34(f)(1)(ix)	Deleted references to ADS and GDCS from the associated Tier 2 column.  Corrected description of the pneumatic IC condensate return valve.
9	Table 1A-1 10CFR50.34(f)(1)(x)	Deleted “or five actuations at normal drywell pressure.” Form discussion since it is no longer a design criteria.
10	Table 1A-1 10CFR50.34(f)(2)(vi)	Added cross reference to IC system (Subsection 5.4.6) Added “continuous” in front of the word venting. Clarified the operation of the head and IC vent paths. Changed “primary” to “main” in front of the word condenser. Deleted paragraph on SRV opening.

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11	Table 1A-1 10CFR50.34(f)(2)(vii)	<p>Corrected statement of NRC item</p> <p>Corrected cross reference to Chapter 15 to 15.4.1.3 for the AST discussion.</p> <p>Added cross references to post accident radiation zone maps.</p> <p>In 6<sup>th</sup> para added rooms to discussion of Remote Shutdown</p> <p>In 6<sup>th</sup> para, reworded last sentence as “The results of the evaluations are reflected in the radiation zone maps (Figures 12.3-43 through 12.3-51) and demonstrate that personnel doses will be within regulatory guidelines.”.</p> <p>In 7<sup>th</sup> para added “the containment and contaminated systems.” To complete a fragmented sentence.</p>
12	Table 1A-1 10CFR50.34(f)(2)(ix)	Deleted cross references to Subsections 3G and 19F.
13	Table 1A-1 10CFR50.34(f)(2)(x)	<p>Inserted para between existing 2<sup>nd</sup> and 3<sup>rd</sup> para to address the ATWS overpressure protection.</p> <p>Deleted “(relief mode)”</p> <p>Revised text regarding inspection of flange serfaces to make it clear that inspections are only performed on valves that are removed as part of normal inspections.</p>
14	Table 1A-1 10CFR50.34(f)(2)(xi)	Deleted cross reference to Subsection 7.3.1.2
15	Table 1A-1 10CFR50.34(f)(2)(xii)	Corrected typo “initiaition”
16	Table 1A-1 10CFR50.34(f)(2)(xiv)	<p>Revised cross reference to Subsection 3.1.5 and added cross reference to Subsection 7.3.3. Deleted cross reference to 3.6.1.3</p> <p>Clarified that MSIVs do not isolate on high DW pressure.</p> <p>Deleted last sentence of the 3<sup>rd</sup> para “....new equipment supplier”</p>

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17	Table 1A-1 10CFR50.34(f)(2)(xv)	Deleted existing cross references. Added cross references to 7.3.3 and 9.4.9
18	Table 1A-1 10CFR50.34(f)(2)(xvii)	Corrected typo, removed extraneous comma.
19	Table 1A-1 10CFR50.34(f)(2)(xviii)	Corrected “form” to “from”. Deleted “shroud” from “steam separator shroud” Cross reference 5.4 deleted.
20	Table 1A-1 10CFR50.34(f)(2)(xix)	Revised reference to state most recent revision of RG 1.97 and deleted “Revision 3”. Added cross reference to Table 1.9-21.
21	Table 1A-1 10CFR50.34(f)(2)(xxi)	Added “Void collapse, “ in two places where water level response is described. Revised “...the condensate return valves will open in 30 seconds, placing the ICS...” deleting “later”. Changed cross reference to 15.2.5.3. Added mention of time delay for the closure of the MSIVs on Level 2. Added note that MSIVs close immediately on Level 1.5. Changed “shutoff head” to “static head” Added parenthetical statement on the role of high pressure CRD makeup in avoiding ADS and GDCS initiation.
22	Table 1A-1 10CFR50.34(f)(2)(xxiii)	Added cross reference to Subsections 7.4.4 and 10.4.4.1 Corrected cross reference to 15.2.5.3 Added a discussion of the nature of the scram and IC initiation on a detection of a loss of feedwater. Added a description of scram on turbine trip if 100% bypass fails.
23	Table 1A-1 10CFR50.34(f)(2)(xxiv)	Typo, corrected “form” to “from”

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### DCD Tier 2, Appendix 1A

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24	Table 1A-1 10CFR50.34(f)(2)(xxv)	Added cross reference to Subsection 13.3
25	Table 1A-1 10CFR50.34(f)(2)(xxvi)	<p>Added new 1<sup>st</sup> para to discuss LD&amp;IS' role in this requirement.</p> <p>Typo changed “complies” to “comply”.</p> <p>Added cross reference to Subsection 7.3.3.</p> <p>Changed 5 to 7 for the number of systems</p> <p>Added note to the PCC statement about being part of the containment.</p> <p>Added CIS and LDW sumps as systems that are covered by this requirement.</p>
26	Table 1A-1 10CFR50.34 (f)(2)(xxviii)	<p>Added cross reference to Subsections 9.4.1 and 15.4.</p> <p>Revised 2<sup>nd</sup> para discussion about Control Room Area Ventilation.</p> <p>Changed “envelope” to “habitability area”</p>
27	Table 1A-1 10CFR50.34(f)(3)(i)	Typo, change “License” to “Licensee” Event Report.
28	Table 1A-1 10CFR50.34(f)(3)(ii)	Added cross reference to Section 3.2.
29	Table 1A-1 10CFR50.34(f)(3)(iv)	<p>Changed “containment of via” to “containment via” on third line.</p> <p>Changed “release point in the wetwell” to “connection point in the wetwell”.</p> <p>Changed cross references to Subsection 9.4.9 and Figure 9.4-14.</p> <p>Added flow of fission products “DPVs via the connecting vents.</p>
30	Table 1A-1 10CFR50.34(f)(3)(v)	<p>Deleted cross references to Subsections 3G and 19.F</p> <p>Deleted referral to discussion of item 10 CFR 50.34(f) (1) (vii)</p>

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**DCD Tier 2, Appendix 1A**

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31	Table 1A-1 10CFR50.34(f)(3)(vii)	Corrected reference to Combined Operating License applicant.

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### DCD Tier 2, Appendix 1B

<b>Item</b>	<b>Location</b> (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	<b>Description of Change</b>
1	Section 1B.2, Item (1), page 1B-1	Changed text to read "... and only the safety-related systems and auxiliaries, as described later ..." because not all systems used are described in Chapter 6.
2	Section 1B.2, Item (3), page 1B-2	Changed text to read "...sample analysis area, nitrogen supply bottles, and external connections for Isolation Condenser (IC), Passive Containment Cooling (PCC) and Fuel pools makeup as described in Appendix 1D (1D.1, Criterion B) to operate ..."
3	Section 1B.2, Item (5), page 1B-2	Changed RW to "Reactor Building (RB)". Inserted "to" in front of "corridors".
4	Section 1B.3.1	Deleted last paragraph.
5	Section 1B.3.2, second paragraph, page 1B-3	Added "or are not applicable for the passive ECC systems" to the end of the second sentence.
6	Section 1B.3.3, second paragraph, page 1B-3	Changed text to read: "... are the safety-related systems used to maintain the plant in a safe shutdown condition." Changed for same reason as item 1 above.
7	Section 1B.3.3, last paragraph, page 1B-3	Added "and manual external connections for IC, PCC and Fuel pools makeup" to end of paragraph.
8	Section 1B.4.1, page 1B-4	Changed "Criteria" to "Criterion" in second line of last paragraph.
9	Section 1B.4.1, page 1B-4	Changed "whole body" to "total effective dose equivalent" in second line of last paragraph.
10	Section 1B.4.3, last paragraph, page 1B-4	Added "and even longer with operator action for IC, PCC and Fuel pools makeup after 72 hours" to end of paragraph.
11	Section 1B.5.1.1, item (3) in second list, page 1B-5	Added "– see Subsection 1B.5.1.4" to end of text in parenthesis.
12	Section 1B.5.1.2, page 1B-6	Changed "Section" to "Subsection" in first paragraph.
13	Section 1B.5.1.3, page 1B-7	Changed "Section" to "Subsection".

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### DCD Tier 2, Appendix 1B

<b>Item</b>	<b>Location</b> (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	<b>Description of Change</b>
14	Section 1B.5.1.4, second paragraph, page 1B-7	Deleted "and reactor water" from the second sentence due to confusion over what system (T62 or P33) performs this task post-accident.
15	Section 1B.5.1.5, first paragraph, page 1B-7	Deleted "Most of the" in first sentence. Changed "The remaining" to "Additional" at start of second sentence. Revised third sentence to read: "Instrumentation is provided to monitor all of the post-accident monitoring (PAM) variables listed in Table 7.5-2."
16	Table 1B-2, Isolation Condensers	Changed location of IC/PCC Pools to "RB".
17	Table 1B-2	Changed "Accumulator Tanks" to "Accumulators" for Standby Liquid Control System.
18	Table 1B-3	Changed table title to "Post-Accident Containment Systems and Auxiliaries".
19	Table 1B-3	Added data for Passive Containment Cooling System (four lines in total).
20	Table 1B-5	Inserted "Essential" in front of "Distributed Control and Information System". Added "(CB and RB)" as location for this system.

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### DCD Tier 2, Appendix 1C

<b>Item</b>	<b>Location</b> (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	<b>Description of Change</b>
1	GL 80-06	Entered evaluation result
2	GL 80-34	Changed evaluation result to refer to GL 80-06
3	GL 81-10	Changed evaluation result to refer to GL 80-06
4	GL81-11	Entered evaluation result
5	GL 81-20	Entered evaluation result
6	GL 81-38	Revised evaluation result
7	GL 82-27	Added DCD reference to evaluation result
8	GL 82-33	Entered evaluation result
9	GL 83-39	Entered evaluation result
10	GL 83-05	Revised evaluation result
11	GL 83-13	Replaced evaluation result with DCD reference
12	GL 84-15	Editorial changes to evaluation result
13	GL 88-14	Added DCD reference to evaluation result
14	GL 88-15	Revised evaluation result and added DCD reference
15	GL 88-18	Editorial changes to evaluation result
16	GL 89-01	Editorial changes to evaluation result
17	GL 89-02	Editorial changes to evaluation result
18	GL 89-04	Editorial changes to evaluation result
19	GL 89-06	Corrected 10 CFR 50.54(f) to 10 CFR 50.34(f) Added DCD reference to evaluation result
20	GL 89-07 and Sup 1	Editorial changes to evaluation result
21	GL 89-08	Added DCD reference to evaluation result
22	GL 89-10 Sup 1-6	Editorial changes to evaluation result
23	GL 89-14	Editorial changes to evaluation result
24	GL 89-18	Added DCD references to evaluation result
25	GL 89-19	Entered evaluation result



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### DCD Tier 2, Appendix 1C

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26	GL 88-20 and Sup 1-5	Editorial changes to evaluation result
27	GL 91-10	Editorial changes to evaluation result
28	GL 91-11	Replaced evaluation result with DCD reference
29	GL 91-17	Added DCD reference to evaluation result
30	GL 92-10 r1	Editorial changes to evaluation result
31	GL 92-04	Editorial changes to evaluation result
32	GL 92-08	Editorial changes to evaluation result
33	GL 93-05	Editorial changes to evaluation result
34	GL 94-02	Editorial changes to evaluation result
35	GL 94-03	Editorial changes to evaluation result
36	GL 95-07	Editorial changes to evaluation result
37	GL 96-03	Editorial changes to evaluation result
38	GL 96-04	Editorial changes to evaluation result
39	GL 96-05	Editorial changes to evaluation result
40	GL 96-06 and Sup 1	Editorial changes to evaluation result
41	GL 99-02	Revised evaluation result
42	GL 03-01	Editorial changes to evaluation result
43	BL 79-02 r2	Entered evaluation result
44	BL 79-08	Editorial changes to evaluation result
45	BL 80-03	Added DCD reference to evaluation result
46	BL 80-05	Revised evaluation result
47	BL 80-08	Editorial changes to evaluation result
48	BL 80-10	Replaced evaluation result with DCD reference
49	BL 80-12	Replaced evaluation result with DCD reference
50	BL 80-15	Editorial changes to evaluation result
51	BL 80-20	Revised evaluation result
52	BL 80-21	Revised evaluation result

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### DCD Tier 2, Appendix 1C

<b>Item</b>	<b>Location</b> (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	<b>Description of Change</b>
53	BL 80-22	Revised evaluation result
54	BL 80-25	Added DCD reference to evaluation result
55	BL 81-02 and Sup 1	Revised evaluation result
56	BL 81-03	Revised evaluation result
57	BL 82-04	Replaced evaluation result with DCD reference
58	BL 83-06	Revised evaluation result
59	BL 87-01	Replaced evaluation result with DCD reference
60	BL 90-02	Added DCD reference to evaluation result
61	BL 91-01 and Sup1	Deleted entries, not applicable power reactors
62	BL 93-05	Editorial changes to evaluation result
63	BL 94-01	Editorial changes to evaluation result
64	BL 96-02	Editorial changes to evaluation result

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### DCD Tier 2, Appendix 1D

<b>Item</b>	<b>Location</b> (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	<b>Description of Change</b>
1	Header	Change from Rev. 0 to Rev. 1
2	1D.1 Criterion A 1 <sup>st</sup> para, 2 <sup>nd</sup> sentence	Sentence deleted. The safety-related portions of the ATWS systems provide the necessary reliability for meeting the regulations and the non-safety functions do not need to be RTNSS. See Red Team Comment, 197
3	1D.1 Criterion B 3 <sup>rd</sup> para, 2 <sup>nd</sup> sentence	Added sentence to clarify what portions of fire protection (FPS) are covered by RTNSS. Relocated discussion of COL item from Criterion C discussion regarding FPS reliability and capacity.
4	1D.1 Criterion C 5 <sup>th</sup> para	Added paragraph to include BiMAC system in list of RTNSS SSCs.
5	1D.1 Criterion C 1 <sup>st</sup> para 2 <sup>nd</sup> , and 3 <sup>rd</sup> sentence	Revised wording to clarify the purpose of the FPS and FAPCS connections in satisfying this Criterion. Also deleted reference to SFP refill mode since this is not needed in the initial 72 hours.
6	1D.1 Criterion D	Revised wording to clarify which issues were addressed by the references to other sections of DCD.
7	1D.1 1. 2 <sup>nd</sup> sentence	Changed “COL licensee” to “COL applicant”
8	1D.1 1. last sentence	Deleted sentence since it was not entirely true.
9	1D.1 2. 1st sentence	Added “and testing” to better explain extent of evaluations.
10	1D.1 2. last sentence	Added sentence to better explain the extent of the evaluations.
11	1d.5	Added references 1D-2 and 1D-3
12	Table 1D-1	Changed the heading of the portion relating to the pool filling capability to delete mention of post 72 hour mission.

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### DCD Tier 2, Appendix 1D

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13	Table 1D-1	Deleted the portion of the Table that described ATWS functions. The safety-related portions of the ATWS systems provide the necessary reliability for meeting the regulations and the non-safety functions do not need to be RTNSS. See Red Team Comment, 197
14	Table 1D-1	Added row to discuss the defense in depth capability of pool fill to address CCF of pool connection valves failing to open at 24 hours.
14	Table 1D-1	Added row to address the BiMAC